

# I. TYPHOON PATSY (6-10 SEPTEMBER 1959)

Early on 6 September, quite unexpectedly, a series of pilot reports were received which confirmed the existence of a tropical cyclone, of at least tropical storm intensity, approximately 600 miles south-southwest of Midway Island. Based on these reports, which were from scheduled commercial and MATS flights between Honolulu and Wake Island, JTWC issued the first warning on Tropical Storm PATSY. Reconnaissance was requested, and a fix was made by a B-50 of the 54th Weather Reconnaissance Squadron at 061905Z. The maximum observed surface wind was 150 knots. PATSY was therefore upgraded to a typhoon in the next warning. Because of the sparsity of data in the area where PATSY was first discovered, surface and upper air charts, analyzed prior to receipt of the initial pilot reports pertaining to PATSY, failed to show any indication of a tropical cyclone in the formative stage of development.

PATSY at first moved to the northeast at 15 knots, steered by an upper level trough in the westerlies located to the west of the typhoon. However, 48 hours later, a second trough developed to the west of PATSY, and became the dominant trough. Under the influence of the latter trough, which had an unusual northwest-southeast orientation, PATSY curved to the northwest moving at 15 knots. As the trough-line neared the longitude of the typhoon, PATSY decelerated rapidly and began recurving to the northeast. Then, after making the turn, PATSY moved up the 180th meridian at 10 to 12 knots for the next 30 hours, slowly weakening. The final tropical warning was

issued at 101200Z.

PATSY was somewhat unique in that, by oscillating back and forth across the 180th meridian, she was quite properly called both a typhoon and hurricane. Perusal of climatological data covering the past 10 years failed to reveal a track similar to that of PATSY. A total of 17 warnings were issued covering a period of 5 days.

## RECONNAISSANCE AIRCRAFT FIXES - TYPHOON PATSY

97

TYPHOON PATSY 06 - 10 AUGUST 1959  
POSITION AND FORECAST VERIFICATION DATA

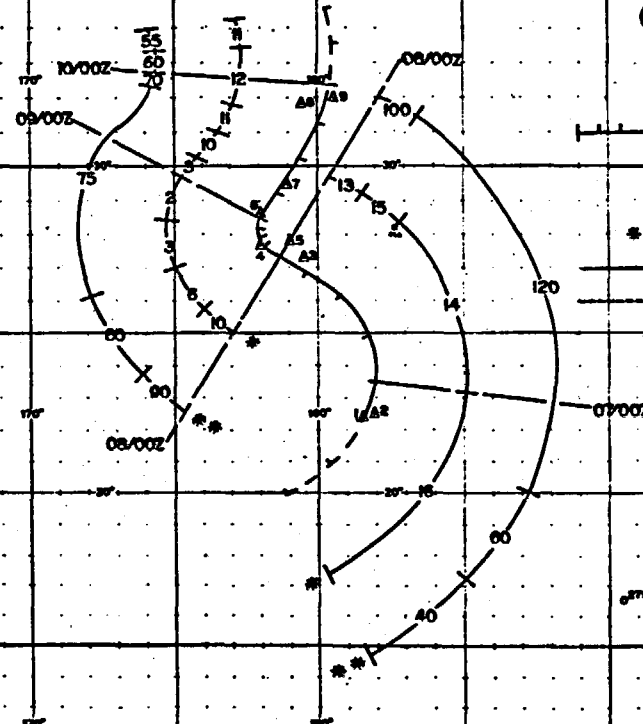
DTG	STORM POSITION LAT. LONG.	12 HR ERROR DEG. DISTANCE	24 HR ERROR DEG. DISTANCE
060600Z	20.0N 179.0E	- - - -	- - - -
061200Z	20.8N 179.5W	- - - -	- - - -
061800Z	22.2N 178.5W	243 - 151	- - - -
070000Z	23.5N 178.1W	219 - 179	- - - -
070600Z	24.9N 178.2W	188 - 75	222 - 236
071200Z	26.2N 179.1W	160 - 114	194 - 248
071800Z	26.9N 179.7E	113 - 135	101 - 212
080000Z	27.3N 178.7E	087 - 176	119 - 141
080600Z	27.7N 178.2E	006 - 152	090 - 150
081200Z	27.9N 178.0E	019 - 260	056 - 164
081800Z	28.1N 177.9E	290 - 82	025 - 354
090000Z	28.4N 178.0E	273 - 134	028 - 446
090600Z	29.2N 178.7E	203 - 87	270 - 161
091200Z	30.2N 179.3E	243 - 99	254 - 276
091800Z	31.2N 180.0-	352 - 46	221 - 184
100000Z	32.4N 179.6W	252 - 29	230 - 185
100600Z	33.5N 179.6W	180 - 16	010 - 83
101200Z	34.5N 179.8E	106 - 80	138 - 38
AVERAGE 12 HOUR ERROR		113.4 NM	
AVERAGE 24 HOUR ERROR		205.6 NM	

# BEST TRACK TYPHOON PATSY

06-10 SEP 1959

## Legend

- 6 HR BEST TRACK POSITS
- ▲ AIRCRAFT FIX
- \* SPEED
- \* \* INTENSITY } KTS
- INTENSITY ≥ 64 KTS
- - - INTENSITY < 64 KTS

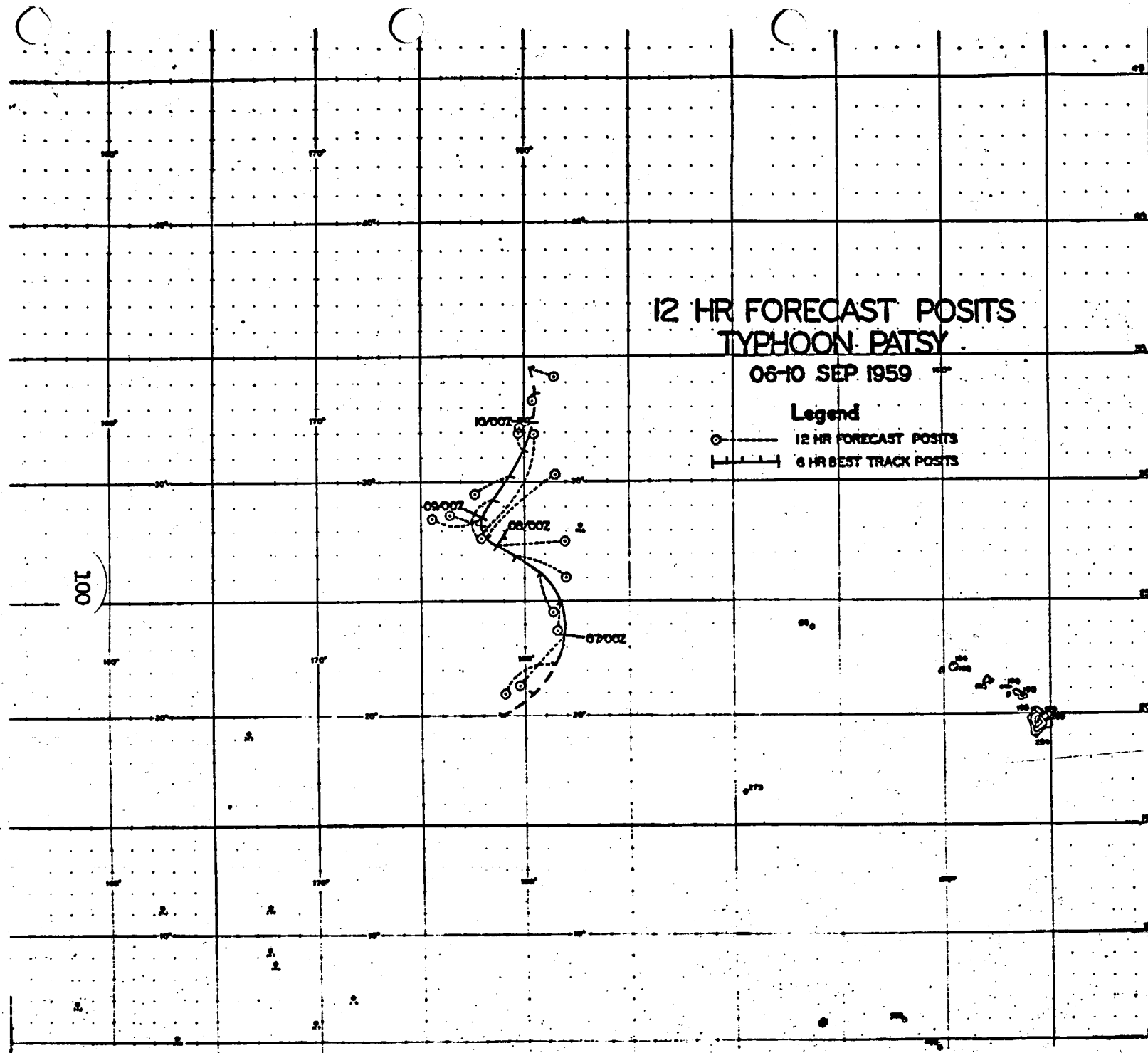


12 HR FORECAST POSITS  
TYPHOON PATSY

08-10 SEP 1959

Legend

- — 12 HR FORECAST POSITS  
— 6 HR BEST TRACK POSITS



24 HR FORECAST POSITS  
TYPHOON PATSY  
06-10 SEP 1959

Legend

- — 24 HR FORECAST POSITS  
— 6 HR BEST TRACK POSITS

